


The Huntsman Collection
(Urochordata: Ascidiacea)
at the Royal Ontario Museum, with
an Annotated Catalogue of Huntsman's
Types from British Columbia

Renate Carson



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RENATE CARSON The Huntsman Collection
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Cover: Ascidian (*Corella rugosa*) from Departure Bay, Strait of Georgia, shown attached to a piece of seaweed (*Macrocystis*). Cover drawing and drawings on page 4 by Leslie Newman.

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The Huntsman Collection (Urochordata: Ascidiacea) at the Royal Ontario Museum, with an Annotated Catalogue of Huntsman's Types from British Columbia

Introduction

The Ascidian Collection in the Department of Invertebrate Zoology at the Royal Ontario Museum contains more than 1,000 specimens, preserved mainly in 70 per cent alcohol. Most of the specimens in the collection were donated by Dr. A. G. Huntsman, Professor in the Department of Zoology at the University of Toronto from 1927 to 1954. The Class Ascidiacea was one of the many groups of marine animals in which Dr. Huntsman was interested. Most of the specimens are from Canadian shores. The main collector of the Pacific and of the Atlantic specimens was Dr. Huntsman himself. The specimens from Hudson Bay and from James Bay were collected by Frits Johansen of the Department of Marine Fisheries and Mines at the time of the Canadian Arctic Expedition between 1913 and 1918. The origin and history of the specimens are substantiated by letters, field books, notes, and drawings filed in the department. This catalogue is an annotated list of the Huntsman types in the collection.

Characteristics of the Catalogue

The type [=holotype] is the first entry for each catalogue species. All type [=holotype] entries follow the same format with the information given listed in the following order: species name, author, year, synonym (where applicable), type designation, catalogue number, locality, collector, date, condition, remarks (where applicable), and information from publications. Pertinent cotypes [=paratypes] are listed after the first entry and follow a modified format to avoid repetition. Species name, author, year, synonym (where applicable), and information from publications are omitted and the type designation is listed for the first cotype [=paratype] entry only and is omitted in subsequent entries for the same species.

Most of the information for the entries was taken from the specimen labels. Entries appear in alphabetical order by genus and species. Species names are written as shown on the original labels with the author's name and year of publication next to them. Frequently, the designations on the labels are obsolete according to the International Commission of Zoological Nomenclature (1964). Designations accepted at present are set in square brackets after the label designation.

Each catalogue number consists of six upper-case letters and of one to three digits. The first three letters stand for Royal Ontario Museum; CN stand for catalogue number and P is the identifying letter for the Catalogue of Invertebrate Chordates; the numeral identifies the specimen(s) and the jar in which it is (they are) shelved and is identical with the numeral on the label in the jar. Where insufficient data is shown on the original label the information is supplemented from pertinent literature (Huntsman, 1912b). Supplementary information from Huntsman 1912b is given in square brackets. Condition indicates whether a specimen is dissected or intact. Notes on the nature of the substrate, preservative (where other than alcohol), depth, and other pertinent information are listed under remarks.

Acknowledgements

I am indebted to Dr. Ian Ball for the suggestion that an ascidian type catalogue be prepared and for providing me with an example (Van der Spoel, 1969). I wish to thank Dr. David Barr for reading the manuscript and suggesting a suitable format.

Abbreviations

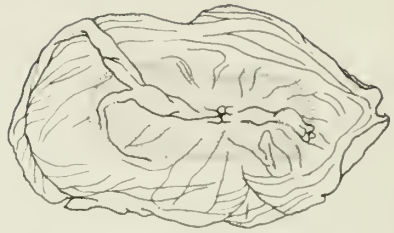
The following abbreviations have been used:

COL	Collector
COND	Condition
LOC	Locality
INF FR PUBL	Information from Publications

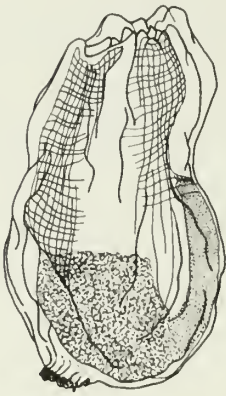
Catalogue of Types



Ascidiopsis columbiana (actual size)



Ascidiopsis nanaimoensis ($\times 3$)



Corella inflata ($\times 7$)



Metandrocarpa taylora ($\times 2$)

Agnesia septentrionalis Huntsman, 1912a:118

Type [= Holotype]

ROMCNP1

LOC: British Columbia: Hecate Strait, 10 mi. west of Stephen Island

COL: [G. W. Taylor]

DATE: 24 July 1906

COND: test cut open

INF FR PUBL: Huntsman, 1912a:118; Huntsman, 1912b:106; pl. X, fig. 1;
pl. XIV, figs. 2, 3

Cotypes [= Paratypes]

ROMCNP2

LOC: see ROMCNP1

COL: see ROMCNP1

DATE: see ROMCNP1

COND: five dissected specimens

ROMCNP3

LOC: see ROMCNP1

COL: see ROMCNP1

DATE: see ROMCNP1

COND: intact specimen

REMARKS: photographed, Huntsman, 1912b:pl. X, fig. 1

Ascidiodopsis columbiana Huntsman, 1912b:110

=*Ascidia callosa* Stimpson, 1852 vide Van Name, 1945:178

Type [= Holotype]

ROMCNP12

LOC: British Columbia: Departure Bay, Jesse Island

COL: [G. W. Taylor], A. G. Huntsman

DATE: 1909

COND: dissected specimen

REMARKS: extreme low tide

INF FR PUBL: Huntsman, 1912a:113, 114; Huntsman, 1912b:110; pl. X, fig. 5;
pl. XII, figs. 5, 7, 8

Cotypes [= Paratypes]

ROMCNP11

LOC: British Columbia: Ucluelet Bay

COL: A. G. H. [Huntsman]
DATE: 1909
COND: one specimen intact, two dissected
REMARKS: photographed Huntsman 1912b:pl. XIV, figs. 5, 7, 8

Paratypes

ROMCNP6

LOC: British Columbia: Departure Bay
COL: [G. W. Taylor], A. G. Huntsman
DATE: 3 July 1909
COND: specimens intact or dissected, heavily encrusted
REMARKS: black rock

ROMCNP7

LOC: see ROMCNP6
COL: see ROMCNP6
DATE: see ROMCNP6
COND: about 19 specimens, several are dissected
REMARKS: low tide

ROMCNP8

LOC: see ROMCNP6
COL: see ROMCNP6
DATE: see ROMCNP6
COND: with open tests

ROMCNP9

LOC: [British Columbia: Departure Bay]
COL: [G. W. Taylor, A. G. Huntsman]
DATE: 30/31 July 1908
COND: dissected specimens

ROMCNP13

LOC: see ROMCNP6
COL: see ROMCNP6
DATE: see ROMCNP6
COND: most specimens intact
REMARKS: seven specimens joined together

ROMCNP14

LOC: see ROMCNP6
COL: see ROMCNP6
DATE: see ROMCNP6
COND: three dissected specimens

ROMCNP15

LOC: British Columbia: Departure Bay, Jesse Island
COL: Huntsman
DATE: 1909

COND: one intact, two dissected specimens

REMARKS: beneath stones

ROMCNP17

LOC: see ROMCNP6

COL: see ROMCNP6

DATE: see ROMCNP6

ROMCNP18

LOC: British Columbia: Departure Bay, Jesse Island

COL: see ROMCNP6

DATE: see ROMCNP6

COND: 11 specimens, shell fragment; some dissected

REMARKS: beneath stones

ROMCNP21

LOC: see ROMCNP6

COL: see ROMCNP6

DATE: 21 July 1908

COND: dissected specimen

REMARKS: dredged

Ascidioipsis nanaimoensis Huntsman, 1912a:119

=*Ascidia prunum*, O. F. Müller, 1776. Nomen Conservandum vide Van Name, 1945:175

Type [=Holotype]

ROMCNP26

LOC: British Columbia: Northumberland Straits

COL: Huntsman

DATE: 12 July 1908

COND: two test fragments and viscera

REMARKS: photographed Huntsman 1912b:pl. XIV, fig. 6

INF FR PUBL: Huntsman, 1912a:113, 114, 119; Huntsman, 1912b:115; pl. X, fig. 6; pl. XIV, fig. 6

Cotypes [=Paratypes]

ROMCNP25

LOC: see ROMCNP26

COL: see ROMCNP26

DATE: see ROMCNP26

COND: two specimens with shell fragments

REMARKS: photographed Huntsman 1912b:pl. X, fig. 6

Ascidiodopsis paratropa Huntsman, 1912a:120

=*Ascidia paratropa* (Huntsman), 1912 vide Van Name, 1945:198

Type [=Holotype]

ROMCNP33

LOC: British Columbia: Departure Bay

COL: [G. W. Taylor, A. G. Huntsman]

DATE: February 1909

COND: dissected

INF FR PUBL: Huntsman, 1912a:114, 120; Huntsman, 1912b:113; pl. X, fig. 4;
pl. XV, figs. 1, 2

Cotypes [=Paratypes]

ROMCNP5

LOC: British Columbia: Ucluelet Bay

COL: Huntsman

DATE: 30 July 1909

COND: specimen on shell, encrusted by other tunicate

REMARKS: 5 to 10 fms.

ROMCNP34

LOC: British Columbia: Departure Bay

COL: [G. W. Taylor, A. G. Huntsman]

DATE: 1909

COND: no test in jar

REMARKS: photographed, Huntsman, 1912b:pl. XV, fig. 1

ROMCNP35

LOC: British Columbia: Departure Bay

COL: [G. W. Taylor, A. G. Huntsman]

DATE: 1 July 1909

COND: dissected

REMARKS: branchial sac displayed, clear stigmata

ROMCNP39

LOC: British Columbia: Departure Bay

COL: [G. W. Taylor], Huntsman

DATE: 1 August 1908

COND: test open

REMARKS: stolons well developed

ROMCNP40

LOC: British Columbia: Banks Island

COL: [G. W. Taylor]

DATE: [1906]

COND: dissected

ROMCNP41

LOC: British Columbia: Departure Bay

COL: [G. W. Taylor], Huntsman

DATE: 1 July 1908

COND: large specimens, dissected and intact

Caesira apoploa Huntsman, 1912a:124

=*Molgula pugetiensis* Herdman, 1898 vide Van Name, 1945:417

Type [=Holotype]

ROMCNP115

LOC: British Columbia: Departure Bay

COL: [G. W. Taylor], Huntsman

DATE: 6 August 1908

COND: specimen intact

REMARKS: [In 5-20 fms.; on sandy bottoms]. [Huntsman, 1912b:128: "This genus (*Caesira*) which is equivalent to *Molgula*, Forbes . . . species of the family which have no striking characters."]

INF FR PUBL: Huntsman, 1912a:114, 115, 124; Huntsman, 1912b:129; pl. XI, fig. 5; pl. XVI, fig. 8; pl. XVII, figs. 1, 4

Cotypes [=Paratypes]

ROMCNP112

LOC: British Columbia: Alert Bay

COL: [G. W. Taylor]

DATE: 11 July 1906

COND: four dissected specimens

ROMCNP114

LOC: British Columbia: Hecate Strait, 15 mi. east of Rose Spit

COL: G. W. Taylor

DATE: 15 July 1906

COND: three dissected specimens

Caesira hecateia Huntsman, 1912a:125

=*Molgula pugetiensis* Herdman, 1898 vide Van Name, 1945:417

Type [=Holotype]

ROMCNP119

LOC: British Columbia: Hecate Strait, 10 mi. east of Rose Spit



COL: [G. W. Taylor]

DATE: [1906]

COND: dissected

REMARKS: [Huntsman, 1912b:131: "This species differs from . . . (*Molgula apoploa*) in . . . It is possible that they may not be distinct."'] [in 15 fms.]

INF FR PUBL: Huntsman, 1912a:125; Huntsman, 1912b:130; pl. XI, fig. 6; pl. XVII, figs. 2, 3

Cotypes [=Paratypes]

ROMCNP120

LOC: see ROMCNP119

COL: see ROMCNP119

DATE: see ROMCNP119

COND: intact specimens

Caesira pacifica Huntsman, 1912a:126

=*Molgula pacifica* (Huntsman), 1912 vide Van Name, 1945:419

Type [=Holotype]

ROMCNP122

LOC: British Columbia: Ucluelet

COL: Huntsman

DATE: August 1909

COND: test cut open

REMARKS: attached to rocks on exposed shore; between tides, photographed specimen

INF FR PUBL: Huntsman, 1912a:115, 126; Huntsman, 1912b:132; pl. XVII, figs. 6, 7, 8; pl. XVIII, fig. 1

Chelyosoma columbianum Huntsman, 1912a:124

Type [=Holotype]

ROMCNP56

LOC: British Columbia: Departure Bay, near Jesse Island

COL: A. G. Huntsman

DATE: 8 July 1908

COND: test opened

REMARKS: dredged at 20–10 fms.

INF FR PUBL: Huntsman, 1912a:114, 124; Huntsman, 1912b:126; pl. XI, figs. 2, 3; pl. XVI, figs. 3, 5, 6

Cotypes [=Paratypes]

ROMCNP62

LOC: see ROMCNP67

COL: see ROMCNP67

DATE: see ROMCNP67

REMARKS: photographed, Huntsman, 1912b:pl. XVI, figs. 3, 5, 6

ROMCNP65

LOC: see ROMCNP56

COL: see ROMCNP56

DATE: see ROMCNP56

COND: dissected specimen

ROMCNP67

LOC: British Columbia: Northumberland Straits

COL: Huntsman

DATE: 12 August 1908

COND: six specimens; some fragmented

REMARKS: 20 fms.

Corella inflata Huntsman, 1912a:123

=*Corella willmeriana* Herdman, 1898 vide Van Name, 1945:213

Type [=Holotype]

ROMCNP81

LOC: British Columbia: Departure Bay

COL: Huntsman

DATE: 1 June 1908

COND: dissected specimen

REMARKS: label in jar says *Corella distorta*

INF FR PUBL: Huntsman, 1912a:114, 123; Huntsman, 1912b:121; pl. X, fig. 8;
pl. XV, fig. 8; pl. XVI, fig. 1

Cotypes [=Paratypes]

ROMCNP82

LOC: see ROMCNP81

COL: see ROMCNP81

DATE: 27 June 1908

COND: stained specimens preserved in oil

REMARKS: under stones

ROMCNP83

LOC: see ROMCNP81

COL: see ROMCNP81
DATE: 11 July 1908
COND: two specimens intact, other dissected
REMARKS: under stones

ROMCNP84

LOC: British Columbia: Departure Bay
COL: Huntsman
DATE: 11 August 1908
COND: partly dried out
REMARKS: specimens were in alcohol when examined but must have been dry at one time

ROMCNP85

LOC: see ROMCNP81
COL: [A. G. Huntsman]
DATE: 8 July 1908
COND: dissected specimens

ROMCNP105

LOC: see ROMCNP81
COL: see ROMCNP81
DATE: [1908–1909]
COND: test opened
REMARKS: photographed, Huntsman, 1912b:pl. X, fig. 8

Corella rugosa Huntsman, 1912a:122

=*Corella willmeriana* Herdman, 1898 vide Van Name, 1945:213

Type [=Holotype]

ROMCNP96

LOC: British Columbia: Departure Bay
COL: [G. W. Taylor, A. G. Huntsman]
DATE: 31 July 1908
COND: fragmented
INF FR PUBL: Huntsman, 1912a:114, 115, 122; Huntsman, 1912b:120; pl. X, fig. 7; pl. XV, figs. 5, 6

Cotypes [=Paratypes]

ROMCNP95

LOC: British Columbia: Northumberland Straits
COL: R. R. Wright
DATE: 1907

COND: fragmented
REMARKS: with algal debris

ROMCNP97

LOC: see ROMCNP96
COL: see ROMCNP96
DATE: see ROMCNP96
COND: test cut open
REMARKS: photographed, Huntsman, 1912b:pl. X, fig. 9

ROMCNP98

LOC: see ROMCNP96
COL: A. G. Huntsman
DATE: 8 August 1908
COND: dissected specimen

ROMCNP99

LOC: see ROMCNP96
COL: see ROMCNP96
DATE: 5 August 1908
COND: four specimens, one very large
REMARKS: algal debris

Goniocarpa coccodes Huntsman, 1912a:131

=*Styela cariocea* (Alder and Hancock), 1848 vide Van Name, 1945:285

Type [=Holotype]

ROMCNP133

LOC: British Columbia: Northumberland Straits
COL: A. G. Huntsman
DATE: 12 August 1908
COND: dissected specimen
INF FR PUBL: Huntsman, 1912a:114, 131; Huntsman, 1912b:154; pl. XII, fig. 8;
pl. XIII, fig. 1; pl. XIX, fig. 8; pl. XX, fig. 1

Cotypes [=Paratypes]

ROMCNP131

LOC: see ROMCNP133
COL: see ROMCNP133
DATE: see ROMCNP133
COND: 12 specimens, some dissected

ROMCNP132

LOC: British Columbia: Departure Bay
COL: R. R. Wright

DATE: 1907
COND: medium-sized, dissected specimens
REMARKS: foreign matter included

ROMCNP134
LOC: British Columbia: Lowe Inlet
COL: G. W. Taylor
DATE: 11 July 1908
COND: test only

ROMCNP135
LOC: British Columbia: China Hat
COL: G. W. Taylor
DATE: July 1906
COND: fragmented

ROMCNP136
LOC: British Columbia: Northumberland Straits
COL: A. G. Huntsman
DATE: 12 July 1908
COND: intact and dissected specimens

ROMCNP137
LOC: see ROMCNP136
COL: see ROMCNP136
DATE: see ROMCNP136
COND: two specimens intact

***Katatropa uclueletensis* Huntsman, 1912a:130**

=*Styela truncata* Ritter, 1901 vide Van Name, 1945:314

Type [=Holotype]

ROMCNP141
LOC: British Columbia: Ucluelet
COL: Huntsman
DATE: July 1909
COND: dissected
REMARKS: [dredged about 9 fms.] not figured
INF FR PUBL: Huntsman, 1912a:115, 130; Huntsman, 1912b:146; pl. XII, fig. 2;
pl. XIX, fig. 4

***Katatropa vancouverensis* Huntsman, 1912a:130**

=*Styela gibbsii* Ritter (part) vide Huntsman, 1912b:144
=*Styela truncata* Ritter, 1901 vide Van Name, 1945:315

Type [=Holotype]

ROMCNP139

LOC: British Columbia: Departure Bay, Jesse Island

COL: Huntsman

DATE: July 1909

COND: dissected specimen

REMARKS: test encrusted by bryozoans

INF FR PUBL: Huntsman, 1912a:115, 130; 1912b:144; pl. XI, fig. 10; pl. XII, figs. 1, 2, 6

Metandrocarpa dermatina Huntsman, 1912b:140

=*Metandrocarpa dura* (Ritter) 1896 vide Van Name, 1945:241

Type [=Holotype]

ROMCNP158

LOC: British Columbia: Hope Island

COL: G. W. Taylor

DATE: 1906

COND: common test with a number of individuals

REMARKS: fragmented stolons included in jar

INF FR PUBL: Huntsman, 1912b:140; pl. XII, fig. 7; pl. XVIII, figs. 7, 8

Cotypes [=Paratypes]

ROMCNP157

LOC: see ROMCNP158

COL: see ROMCNP158

DATE: see ROMCNP158

COND: about two dozen test pieces

REMARKS: stained; preserved in oil

Metandrocarpa taylori Huntsman, 1912a:129

Type [=Holotype]

ROMCNP150

LOC: British Columbia: China Hat

COL: G. W. Taylor

DATE: 28 July 1906

COND: test opened

REMARKS: [dredged from a few fathoms]

INF FR PUBL: Huntsman, 1912a:129; Huntsman, 1912b:141; pl. XI, fig. 9

Cotypes [=Paratypes]

ROMCNP149

LOC: see ROMCNP150

COL: see ROMCNP150

DATE: see ROMCNP150

COND: several individuals on stolon

ROMCNP155

All information see ROMCNP150

REMARKS: on black stones and algae

Phallusia ceratodes Huntsman, 1912a:121

= *Ascidia ceratodes* (Huntsman), 1912 vide Van Name, 1945:196

Type [=Holotype]

ROMCNP53

LOC: British Columbia: Departure Bay

COL: A. G. Huntsman [G. W. Taylor]

DATE: 19 August 1908

COND: dissected

REMARKS: mouth of Bay; dredged from sponge bed

INF FR PUBL: Huntsman, 1912a:114, 121; Huntsman, 1912b:117; pl. X, fig. 9;
pl. XV, figs. 3, 4, 7

Cotypes [=Paratypes]

ROMCNP44

LOC: [British Columbia]

COL: —

DATE: —

COND: most specimens intact

REMARKS: all specimens of *Phallusia ceratodes* were collected from Departure Bay or Northumberland Strait

ROMCNP48

LOC: [British Columbia]

COL: Huntsman

DATE: 6 August 1908

COND: specimens intact

REMARKS: see ROMCNP44

ROMCNP52

LOC: see ROMCNP53

COL: see ROMCNP53

DATE: see ROMCNP53

COND: —

REMARKS: photographed, Huntsman, 1912b:pl. X, fig. 9; pl. XV, fig. 3

ROMCNP54

LOC: [British Columbia: Departure Bay, Northumberland Strait]

COL: [G. W. Taylor, A. G. Huntsman; J. Macoun]

DATE: [1908 and 1909, 1907]

COND: intact

REMARKS: algal debris

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